

National Park Service Fire Ecology Program **DRAFT Strategic Plan** March 2004

Approved by the National Park Service Fire Management Leadership Board, XX/XX/2004		
Sue Vap	Date	
National Park Service		
Fire Management Officer		

Table of Contents

1. Introduction	3
A. Purpose	3
B. Strategic Plan Development Process	4
C. Strategic Plan Management Process	5
2. Vision	7
3. Mission Statement	7
4. Guiding Principles	8
5. Mission Goals, Objectives, and Strategies	9
6. Long-Term Action Plan	13
Appendix A – Program Background	25
Appendix B – Fire Ecology Strategic Plan Workshop Participants	26

A. Purpose

The National Park Service's (NPS) Fire Management Program has grown immensely in scope and complexity over the last decade. Changes in federal policy, new political initiatives, and increased planning requirements, have all resulted in a greater need for scientific information to support fire management activities. In recognition of this need, the NPS made the commitment to fund national and regional fire ecologists and additional field-level fire ecologist positions, within the existing budgetary allocation. These positions were designed to address the increased workload associated with:

- collecting, analyzing, and interpreting fire effects monitoring data
- using fire ecology information for adaptive management
- serving as a liaison between fire and resource management at park, regional and national levels
- providing assistance in the development of land management plans (Fire Management Plans and associated compliance documents, Resource Management Plans)
- conducting landscape-level assessments to assist in the evaluation and prioritization of fire management needs and goals
- providing direction for project-level prescribed fire and fuels treatment plans
- collaborating with other government agencies and partners.

Like any developing program, the NPS Fire Ecology Program was faced with much work to do without a historical framework to organize and guide the program. Although work areas had been identified, the Fire Ecology Program needed a plan to define an overall program vision and mission and to clearly identify and prioritize the work of the program. With a high demand for information and assistance, as well as budgetary constraints, the Fire Ecology Program needed a way to determine where best to focus its efforts to carry out the most important work to support the NPS in a timely, effective way. For further program background leading to this Strategic Plan, see Appendix A. The Strategic Plan organizes the work of the Fire Ecology Program in a comprehensive, logical manner to:

- b define the scope of the program
- > establish a shared vision
- identify guiding principles
- > establish goals and objectives to drive the program
- > outline strategies for achieving the objectives
- develop action plans for accomplishing the strategies.

Over the course of this Strategic Plan's development, the Fire Management Program Center also developed a Strategic Plan for the Wildland Fire Management Program using a similar process. As part of the Wildland Fire Management Program, the Fire Ecology Program Strategic Plan is consistent with, and appended to, the Wildland Fire Management Program Strategic Plan.

The strategic plan hierarchy is as follows:

NPS STRATEGIC PLAN NPS WILDLAND FIRE MANAGEMENT PROGRAM STRATEGIC PLAN NPS FIRE ECOLOGY PROGRAM STRATEGIC PLAN

While this plan reflects the specific mission of, and provides detailed direction to, the NPS Fire Ecology Program, it falls under the broader umbrella of the NPS Wildland Fire Management Program and NPS Strategic Plans. The more specific objectives, strategies, and action items of the Fire Ecology Program Strategic Plan can be viewed as an implementation plan, or work plan that flows from the more general NPS and Wildland Fire Management Program Strategic Plans.

B. Strategic Plan Development Process

Three separate workshops were held to develop the Fire Ecology Program Strategic Plan, 10-11 October 2001 (Ft. Collins, CO), 12-14 February 2002 (Ft. Collins, CO), and 7-10 April 2003 (Reno, NV). A core group of participants were present at all three workshops while other participants were involved in one or two workshops (Appendix B). The workshops were facilitated by Wilma Strohmeier of InterWest Management Associates, Inc.

The Strategic Plan development process involved several steps. Because considerable time passed between workshops, some steps were repeated to get input from new workshop participants or because conditions had changed since the previous workshop. The following description represents the general process that was used to develop the Strategic Plan, but the steps did not necessarily take place in a chronological fashion:

Situation Analysis – We first performed an internal evaluation of the program's current strengths and weaknesses and future opportunities and threats. This exercise was designed to provide a foundation to make sure the group addressed the limitations of the program and took advantage of the program assets in developing the Strategic Plan.

Guiding Principles – The group developed a list of the program's core values to describe a sound set of beliefs, not to be compromised, on which all policies and actions are based. A long list was developed and then each participant ranked their top choices to select the final list (section 4).

Vision – We created a vivid description of what the Fire Ecology Program should look like; this vision was redrafted in many forms before a consensus was finally reached (section 2).

Mission Statement – To provide long-term direction and focus, we wrote a clear and compelling statement that defines the Fire Ecology Program. This statement concisely identifies who we are and what we want to accomplish (section 3).

Mission Goals – The group determined the most important future achievements for the Fire Ecology Program by describing general statements about what must be accomplished to achieve the mission. These long-term mission goals provide the basis for evaluating performance, and transition from the mission statement to specific objectives that must be accomplished (section 5).

Objectives – Next, we formulated specific, measurable, time bound results that will lead to the accomplishment of a mission goal. These objectives restate mission goals in operational terms of what must be done and when it must be done (section 5). Note that the term "Objective" used here is identical to the term "Long-Term Goal" often used in other plans.

Strategies – We prepared broad, action-oriented strategies that describe how resources will be used and how results identified in each objective will be achieved (sections 5).

Long-term Action Plan – Lastly, a detailed plan with action items, timeframes, and assignment of responsibility was compiled. In order to meet the objectives, specific actions must be taken to carry out the strategies. The Action Plan details actions to be performed, who is responsible for completing the task, and when the task must be completed to meet targets (section 6).

Annual Action Plan – Because it is unlikely that resources exist to achieve all the program goals immediately, each year an annual action plan will be created with selected action items that will allow the Fire Ecology Program to meet its highest priority goals for the next year.

The fact that the Strategic Plan development process took place over an extended period of time was a significant barrier to an efficient, cohesive process. Despite this obstacle of discontinuity, the workshop participants put a great deal of effort into making sure that the resulting product would be a useful, working document for the Fire Ecology Program. After the workshops were completed, a smaller subset of the group was formed to edit and reorganize the plan. The goals and objectives were then finalized and the strategies and action items were prioritized with the larger group during the annual Fire Ecology Program Steering Committee meeting and the monthly National and Regional Fire Ecology Program Manager conference calls. Finally, a project lead was assigned to document the process, compile and format all the work, implement the review process, and finalize the Strategic Plan for approval by the Fire Management Leadership Board.

Because the development of this Strategic Plan occurred simultaneous to development of the Wildland Fire Management Program Strategic Plan, efforts were made to ensure that the planning efforts were integrated. The Fire Ecology Program Mission Goals link directly to the Mission Goals outlined in the Wildland Fire Management Program Strategic Plan referenced in section 5 of this plan.

C. Strategic Plan Management Process

This Strategic Plan is designed to provide programmatic direction by clearly articulating the NPS Fire Ecology Program's mission and linking that mission to long-term goals, objectives, and more specific strategies. An annual Fire Ecology Program Action Plan will be developed each year to outline the highest priority strategies that will assist in fulfilling the program's mission goals within current budgetary allocations.

The Strategic Plan was designed to fully support field-level goals and is consistent with work currently being performed at both the field and regional levels. The Fire Ecology Program staff will work directly with their Regional and Park Fire Management Officers and Resources Management Chiefs to determine how the tasks outlined in the annual Action Plan link with their work plans. While park- and regional-level needs are the highest priority, the Strategic Plan will provide long-term direction that will assist Parks and Regions in achieving their goals while simultaneously carrying out the broader mission of the Fire Ecology Program.

NPS Fire Ecology Program Strategic Plan

The NPS Fire Ecology Strategic Plan will be reviewed each year by the Fire Ecology Program Steering Committee at its annual meeting in October. This review will be an opportunity to examine the mission goals, objectives, strategies, and action items to determine whether they are still relevant to achieving the mission of the Fire Ecology Program. In addition, new strategies or tasks may be added in response to changing needs of the NPS Fire Management Program. Also at this annual meeting, the strategies and action items that are the highest priority to accomplish in order to meet the goals of the program will be compiled into a new annual Action Plan. Progress on completing the annual Action Plan will be checked quarterly during the Fire Ecology Steering Committee conference calls (January, April, and July).

The approved NPS Fire Ecology Strategic Plan and current and past Action Plans will be posted on the Internet at: http://www.nps.gov/fire/ecology/

The National Park Service Fire Ecology program ensures that the most current science-based information is integrated into fire and land management goals, decisions and practices. Cooperative efforts help protect, restore, and maintain diverse landscapes where the role of fire is understood and accepted as a fundamental cultural and ecological force.



photo by Eric Knapp

3 Mission Statement

The mission of the National Park Service Fire Ecology Program is to apply fire ecology to guide fire and land management:

- Supporting land management decisions and practices with science-based expertise
- Providing leadership and innovation in the fire ecology community
- Articulating ecologically sound objectives to strengthen and facilitate the land management planning process
- Promoting a widely communicated and easily accessible knowledge base
- Facilitating coordination between wildland fire and other resource management programs.

4 Guiding Principles

The following Guiding Principles define the Fire Ecology Program's essential and enduring tenets, not to be compromised. All Fire Ecology Program policies and actions are based on this sound set of core values.

> Best Available Science and Judgment

Base recommendations and decisions on the best available science, including sound data collection, analysis, and interpretation.

> Excellent Resource Stewardship

Seek and promote best resource management practices to restore and maintain fire influenced landscapes.

> Interdisciplinary Approach

Integrate fire and fuels management into natural and cultural resource programs.

> Support Individual Parks

Support individual parks within the context of the broader ecological and cultural landscape-scale issues.

> Visionary Approach

Anticipate evolving needs and develop visionary solutions.

> Innovation

Foster an atmosphere that encourages innovative solutions.

> Professional Workforce

Cultivate and value a professional, competent and ethical workforce.

Communications

Ensure common understanding, acceptance, and support of the fire ecology program through open, timely, and pertinent communication with all stakeholders.

> Data Stewardship

Manage data as a resource that is reliable, timely, and accessible for adaptive management.

> Leadership

Provide passionate (strong) advocacy at all levels for ecologically sound fire management.

> Safety

Recognize safety as a primary consideration for all actions, recommendations, and decisions.

5 Mission Goals, Objectives, and Strategies

To achieve the mission of the Fire Ecology Program, mission goals, objectives, and strategies were developed, keeping the program vision and guiding principles in mind. The Fire Ecology Program mission goals, objectives, and strategies are preceded by the corresponding Wildland Fire Management Program (WFMP) Strategic Plan mission goals to illustrate the direct tie between the tiered planning efforts.

~WFMP MISSION GOALS 4A AND 4B: Fire Management develops improved management practices, systems, and technologies to accomplish its mission; NPS fire management programs are cost effective and efficient~

Mission Goal I. Fire Ecology Program Structure and Function – Integrate the Fire Ecology Program with the larger fire management community by clearly defining the Fire Ecology Program structure and function.

Objective Ia. The role and organizational structure of the Fire Ecology Program is well-defined, understood, and recognized within the National Park Service (NPS) Fire Management Program by 2006.

Strategy Ia1. Develop organization and functional charts for the Fire Ecology Program and other relevant positions (e.g. Fire Management Officers (FMO), Prescribed Fire Specialists) and establish relationships of program specialists with the Regional and National office staffs.

Strategy Ia2. Define the roles and responsibilities of the Fire Ecology Program staff.

Strategy Ia3. Define roles and responsibilities of the Fire Ecology Program staff in relation to other NPS fire management staff.

Strategy Ia4. Refine NPS Fire Monitoring Policy and specify the roles of Fire Ecology Program staff in policy implementation.

Objective Ib. The NPS Fire Ecology Program is well-integrated with the NPS Fire Management Program by 2006.

Strategy Ib1. Integrate the Fire Ecology Program and the NPS Fuels Management Program.

Strategy Ib2. Establish a relationship between the Fire Ecology Program and the NPS fire management safety program.

Strategy Ib3. Integrate the Fire Ecology Program into the NPS fire evaluation and review process.

Strategy Ib4. Establish the relationship between the Fire Ecology Program and the NPS Fire Prevention and Education Program.

Strategy Ib5. Establish the relationship between the Fire Ecology Program and the NPS fire management Air Quality Program.

Strategy Ib6. Establish the relationship between the Fire Ecology Program and the NPS Fire Use and Suppression Programs.

Strategy Ib7. Establish fire ecologists as one of the fire program contacts for Burned Area Emergency Rehabilitation (BAER).

Strategy Ib8. Establish fire ecologists as one of the fire program contacts for the Resource Advisor (READ) function.

Objective Ic. The success of the Fire Ecology Program in achieving its mission is assured through program evaluation, beginning in 2003.

Strategy Ic1. Conduct periodic reviews of NPS Fire Ecology Programs

Strategy Ic2. Evaluate progress on Strategic Plan implementation on a quarterly basis.

Strategy Ic3. Evaluate the Fire Ecology Program structure and position needs.

Objective Id. The NPS Fire Ecology Program Strategic Plan is well-integrated with other strategic planning efforts by 2004.

Strategy Id1. The Fire Ecology Program Strategic Plan is integrated into the NPS Wildland Fire Management Strategic Plan and links to the NPS Strategic Plan.

Objective Ie. The role of the Fire Ecology Program in relation to the broader external and interagency fire management community is well defined and recognized by 2008.

Strategy Ie1. Define external users of fire ecology information.

Strategy Ie2. Develop new Memorandum of Understandings (MOUs) and/or formalize relationships with identified partners that specify roles and responsibilities.

Strategy Ie3. Identify and participate with appropriate interagency task groups as necessary to establish and maintain collaborative relationships with the broader fire management community.

~WFMP MISSION GOALS 1A AND 3A: Natural and cultural resources and their associated values are protected, restored, and maintained in good condition, managed within their broader ecosystem and cultural context. Management actions will not compromise safety for employees and the public; Natural and cultural resources are preserved through formal partnership programs (including interagency fire planning)~

Mission Goal II. Science-based Management – Ensure fire management activities are informed and supported by the best available scientific information.

Objective IIa. Field-level planning, reporting, and monitoring activities are developed and reviewed to ensure that they are science based by 2006.

Strategy IIa1. Develop recommended guidelines and procedures for review of policy, Fire Management and Monitoring Plans, research proposals, and reports.

Strategy IIa2. Develop, implement and review monitoring methods and protocols that effectively measure progress towards fire and resource management goals.

Objective IIb. Knowledge gained through Fire Ecology Program activities is consistently analyzed, evaluated, and made available for program planning and refinement by 2005.

Strategy IIb1. Develop a structured reporting process for monitoring program data analysis and results that reports accomplishments to Park Superintendents, Regional Fire Management Officers, the Fire Management Leadership Board, and the public.

Strategy IIb2. Develop a process to incorporate research results into fire management program planning and implementation.

Objective IIc. Landscape-level planning incorporating ecological modeling, desired future conditions, risk assessment, and treatment priority concepts is implemented by 2006.

Strategy IIc1. Work with NPS and interagency partners to develop and implement landscape-scale planning efforts, including LANDFIRE, the Fire Program Analysis (FPA) system, and the Fire Learning Network (FLN) program.

Strategy IIc2. Utilize a consistent/relevant process to document Fire Regime Condition Class (FRCC) and integrate FRCC assessments into ecological models and other planning efforts.

Objective IId. A process for identifying, prioritizing, and pursuing Fire Ecology Program research needs is implemented by 2006.

Strategy IId1. Identify National Fire Ecology Program roles, mechanisms, and schedules for identifying, prioritizing, and pursuing programmatic research needs.

Strategy IId2. Identify regional and Park level Fire Ecology Program roles, mechanisms, and schedules for identifying, prioritizing, and pursuing programmatic research needs.

~ WFMP MISSION GOAL 4A: Fire Management develops improved management practices, systems, and technologies to accomplish its mission~

Mission Goal III. Information Management – Provide fire ecology-related data and information that is easily accessible and valuable to all user groups.

Objective IIIa. Data needs for the Fire Ecology Program are identified, prioritized, and pursued by 2006.

Strategy IIIa1. Identify, prioritize, and acquire data required to support the Fire Ecology Program. **Strategy IIIa2.** Establish the relationship between the Fire Ecology Program and the NPS fire information management program.

Objective IIIb. Fire ecology data and information are collected, stored, and accessed using the latest technologies for use by the Fire Ecology and other related programs and projects by 2005...

Strategy IIIb1. Design and build an application to collect, store, index, and analyze fire ecology data and information.

Strategy IIIb2. Centralize data and information as appropriate to provide secure access.

Strategy IIIb3. Develop and implement standards and quality assurance/quality control (QA/QC) measures to ensure consistent, high quality data and information.

~ WFMP MISSION GOAL 1B: Fire management is integrated with other service wide programs to contribute knowledge about natural and cultural resources and associated values; management decisions about resources and visitors are based on adequate scholarly and scientific information~

Mission Goal IV. Integrate Fire and Resource Management – Facilitate coordination between the fire and resource management programs to ensure that the fire program meets resource management goals.

Objective IVa. Fire and resource management staff will work together to ensure that fire-related resource management objectives are integrated in all levels of park planning by 2007 (General Management Plan (GMP), Resource Management Plan (RMP), Fire Management Plan (FMP), project-level plan); develop policy, guidance and new initiatives for fire-related land management planning and related issues.

Strategy IVa1. Establish the role of the Fire Ecology Program in the fire and resource management planning process.

Strategy IVa2. Establish NPS administrative processes that encourage collaboration between the Fire Ecology Program and natural and cultural resource planning efforts.

Strategy IVa3. Educate and train fire and resource staff on appropriate collaborative issues including planning, FRCC, and ecological modeling, working with other fire management program staff.

Objective IVb. The Fire Ecology Program will collaborate with the Inventory and Monitoring (I&M) program (branch of the NPS Natural Resource Program Center) by 2006 to efficiently meet resource-monitoring goals.

Strategy IVb1. Continue to implement collaborative vegetation/fuels mapping program with the NPS I&M program.

Strategy IVb2. Integrate the Fire Ecology Program and I&M network inventory and monitoring efforts. **Strategy IVb3.** Participate with appropriate task groups to ensure collaboration occurs between fire ecology and I&M programs and staff.

~ WFMP MISSION GOAL 4C: Adopt leadership and management practices that promote a competent, motivated, diverse workforce~

Mission Goal V. Employee Development and Retention – Promote a work environment where employees are highly skilled and valued.

Objective Va. The Fire Ecology Program recruits and maintains a professional and highly competent work force by 2006.

Strategy Va1. Institute recruitment plan for filling vacant fire ecologist and fire effects monitor positions to recruit employees with high potential.

Strategy Va2. Develop standard position descriptions (PDs) for all levels of the Fire Ecology Program. Include additional optional PDs that incorporate 6c coverage (secondary firefighter retirement) for Fire Ecology Program positions where appropriate.

Strategy Va3. Develop and implement minimum competencies and professional standards for all permanent Fire Ecology Program employees, including scientific and program administration skills. **Strategy Va4.** Implement process for tracking retention of employees.

Objective Vb. The Fire Ecology Program develops highly skilled, dedicated, and motivated employees who are leaders in their fields by 2006.

Strategy Vb1. Provide employee training and development opportunities (detail assignments, training and education opportunities) and communicate via website/Intranet.

Strategy Vb2. Provide opportunities for staff to maintain scientific currency and expertise.

Strategy Vb3. Institute a program for employee recognition and rewards for innovative and collaborative work.

Objective Vc. The Fire Ecology Program develops and participates in training to meet programmatic needs by 2006.

Strategy Vc1. Develop the Fire Ecology Program training curriculum.

Strategy Vc2. Ensure that fire ecology is integrated into the interagency fire management training curriculum.

~WFMP MISSION GOALS 2A AND 4A: Fire management practices help ensure that visitors safely enjoy and are satisfied with the availability, accessibility, diversity, and quality of park facilities, services, and appropriate recreational opportunities; Fire Management develops improved management practices, systems, and technologies to accomplish its mission~

Mission Goal VI. Communication – Ensure common understanding, acceptance, and support of the Fire Ecology Program.

Objective VIa. The Fire Ecology Program staff develop and implement a plan to communicate clearly, consistently, and effectively with all internal and external audiences by 2006.

Strategy VIa1. Develop a communication strategy for exchanging information within the NPS Fire Ecology Program staff.

Strategy VIa2. Develop a communication strategy for exchanging fire ecology information within the National Park Service.

Strategy VIa3. Develop an external fire ecology program education and communication plan that focuses on other federal, state, and local agencies and cooperators (Non-Governmental Organizations (NGOs)), in conjunction with existing communications programs.

Strategy VIa4. Work with existing communications programs to develop an external fire ecology education and communication plan that focuses on the general public.

6 Long-Term Action Plan

This section contains all the Fire Ecology Program mission goals, objectives, strategies, and action items in a table format. For a condensed text version (without the more specific action items), see section 5. Strategies and action items with asterisks were identified as the highest priority tasks and were compiled into the 2004 Action Plan (separate document).

Mission Goal I. Fire Ecology Program Structure and Function – Integrate the Fire Ecology Program with the larger fire management community by clearly defining the Fire Ecology Program structure and function.

Action Required	By Whom	By When
Objective Ia. The role and organizational structure of the Fire Ecology Program is well-defined, u	understood, and recog	nized within
the National Park Service (NPS) Fire Management Program by 2006.		
*Strategy Ia1. Develop organization and functional charts for the Fire Ecology Program and other		
Management Officers (FMO), Prescribed Fire Specialists) and establish relationships of program s	pecialists with the Re	gional and
National office staffs.		
*(a) Develop an organization chart showing supervisory and functional relationships for National	*Benson	defer
and Regional Office Fire Ecology Program staff and post to Intranet.		(detailer if
		time)
*(b) Develop an organization chart showing supervisory and functional relationships for	*Kerr	defer
Regional Offices' and Parks/Clusters' Fire Ecology Program staff and post to Intranet.	Regional Fire	(detailer if
	Ecology Program	time)
	Managers	
	(RFEPMs)	
*Strategy Ia2. Define the roles and responsibilities of the Fire Ecology Program staff.		
*(a) Develop a chart demonstrating positions and recommended duties within the Fire Ecology	*detailer to be	1 Oct 2004
Program and post to Intranet.	determined	
*(b) Develop role and function statements identifying expectations and workload priorities for	*detailer to be	1 Oct 2004
each type of Fire Ecology Program position and post to Intranet.	determined	
Strategy Ia3. Define roles and responsibilities of the Fire Ecology Program staff in relation to oth	ner NPS fire managem	ent staff.
(a) Develop a table demonstrating positions and recommended shared duties and relationships		
between Fire Ecology Program and related positions (e.g. Fire Use Monitors, Fire Geographic		
Information System (GIS) Specialists, Fuels Positions, etc.) and post to Intranet.		
(b) Develop narrative to support the above table specifying critical interaction processes and		
recommended timeframes (e.g. Budget requests, field season scheduling, National Fire Plan		
Operations and Reporting System (NFPORS) inputs)		
(c) Develop PowerPoint presentation and white paper that describes the role and functions of fire		
ecologists, and the role of fire ecologists in the fire management program.		
(d) Maintain working relationship with the FirePro Steering Committee (FPSC) by having a	Noble	Completed
member on the Fire Ecology Steering Committee (FESC) who facilitates communication		Ongoing
regarding staffing and other issues.		
(e) Select liaison between Fire Ecology Program and Fire Program Analysis (FPA) system	*Benson	Completed
development [links to action items IIc1(h) and IVb2(h)].		1
*Strategy Ia4. Refine NPS Fire Monitoring Policy and specify the roles of Fire Ecology Program	staff in policy impler	nentation.
*(a) Review Reference Manual 18 (RM-18) Chapter 11, Wildland and Prescribed Fire	*Noble	1 Sep 2004
Monitoring, including additions of reporting, fuels monitoring/wildland-urban interface (WUI),	(task group)	1
adaptive management, and program reviews, and submit recommended edits for approval.	, 5 1/	
Include defining the scope of the program and roles and responsibilities discussion [links to		
action items $IbI(b)$, $IcI(a)$, and $IIaI(a)$.		
*(b) Ensure consistency between RM-18 Chapter 11, Wildland and Prescribed Fire Monitoring,	*Noble	1 Sep 2004
and Chapter 4, Fire Management Plans [links to action item IVa1(a)].		•

	1 2006	
Objective Ib. The NPS Fire Ecology Program is well-integrated with the NPS Fire Management	Program by 2006.	
*Strategy Ib1. Integrate the Fire Ecology Program and the NPS Fuels Management Program.	1.=	1
*(a) Request Fire Ecology Program membership on national level committees that determine	*Benson through	1 Jun 2004
agency implementation plans for the National Fire Plan (NFP) [links to action item IIa1(b)].	Wallace	1.0.2004
*(b) Collaborate with fuels personnel to develop recommendations for Wildland Urban Interface	*Wills	1 Oct 2004
Initiative (WUII) and mechanical treatment monitoring protocols; Communicate these protocols	(task group)	
and recommended roles of fire ecologists in the fuels management planning, implementation, and		
evaluation and review processes, to fire management program staff through the Fire Management		
Program Center (FMPC) Fuels Management Specialist [links to action item Ia4(a)].		
*(c) Review RM-18 Chapter 10, Prescribed Fire, to ensure that fire ecologists will participate in	*Wallner	1 Sep 2004
developing projects, and submit recommended edits for approval.	(task group)	
Strategy Ib2. Establish a relationship between the Fire Ecology Program and the NPS fire manag	ement safety program.	
(a) Identify which Fire Ecology Program activities are unique to the program and are not		
covered by existing fire management program Job Hazard Analysis (JHA).		
(b) Develop JHAs for each unique activity conducted by Fire Ecology Program staff and post to		
Intranet.		
(c) Provide copy of fire ecology-specific JHAs to National, Regional, and Park level safety		
program leaders.		
(d) Review RM-18 Chapter 3, Safety, and submit recommended edits for approval.		
Strategy Ib3. Integrate the Fire Ecology Program into the NPS fire evaluation and review process	S.	!
(a) Review RM-18 Chapter 13, Evaluation and Review, including recommendation of regular		
Fire Ecology Program reviews at all levels including identification of emerging issues and		
submit recommended edits for approval [links to Strategy Ic1 and action item IIa1(a)].		
Strategy Ib4. Establish the relationship between the Fire Ecology Program and the NPS Fire Prev	vention and Education	Program
(a) Review RM-18 Chapter 8, Prevention and Fire Education, and submit recommended edits for	Vention and Education	l Togram.
approval.		
Strategy Ib5. Establish the relationship between the Fire Ecology Program and the NPS fire man	agement Air Quality Pr	ogram
Strategy Ibb. Establish the relationship between the Fire Ecology Program and the NPS Fire Use		
(a) Review RM-18 Chapter 14, Air Quality and Smoke Management, and submit recommended	and Suppression Progr	allis.
edits for approval.	D 1 1:1:4: (D	A ED)
Strategy Ib7. Establish fire ecologists as one of the fire program contacts for Burned Area Emerg	gency Rehabilitation (B	AER).
(a) Contact BAER program coordinator to clarify fire ecology contacts and recommended		
procedures.		
(b) Review BAER process to improve coordination with the Resource Management Program.		
(c) Recommend that Regional FEPMs attend national interagency BAER workshops.		
(d) Review RM-18 Chapter 12, Burned Area Emergency Rehabilitation, and edit as necessary to		
establish fire ecologists as primary contacts for BAER.		
Strategy Ib8. Establish fire ecologists as one of the fire program contacts for the Resource Advis	or (READ) function.	•
(a) Review the role of Resource Advisor and make recommendations for changes to related		
policy and training and qualification practices.		
(b) Recommend that Park and Regional level fire ecologists serve as Resource Advisors within		
their respective geographic areas.		
Objective Ic. The success of the Fire Ecology Program in achieving its mission is assured through	h program evaluation 1	neginning in
2003.	ii program e varaation, t	,
Strategy Ic1. Conduct periodic reviews of NPS Fire Ecology Programs		
(a) Develop recommended goals, procedures and methods for National, Regional, and Park level		
fire ecology program reviews that include external specialists [links to action items Ia4(a),		
In the ecology program reviews that include external specialists funks to action tiems 1a4(a), Ib3(a), and IIa1(a)].		
(b) Develop a schedule for implementation of program reviews and carry out the reviews.	Benson	
(b) Develop a schedule for implementation of program reviews and carry out the reviews.	RFEPM s	
*Stratom Io2 Evaluate processes on Stratogic Diaminus language in the language in the stratogic Diaminus language in the	KLELMI 2	
*Strategy Ic2. Evaluate progress on Strategic Plan implementation on a regular basis.	417 '0	
*(a) Create an annual Action Plan identifying priority action items that need to be accomplished	*Keifer	Annually
each year, personnel responsible, and timeframes.	Fire Ecology	
	Steering	
	Committee (FESC)	
*(b) Determine appropriate format/mechanism for Strategic Plan maintenance and post the	*Keifer	Annually
Strategic Plan and current Action Plan to the Intranet.		

NPS Fire Ecology Program Strategic Plan

*(c) Update the Action Plan at least quarterly to reflect accomplishments and assignment or due date changes and post updates to Intranet.	*RFEPMs Conference Call Leader	Quarterly Jan, Apr, Jul, Oct
*(d) Review the Strategic Plan annually at the Fire Ecology Steering Committee meeting to	*Benson	Annually by
revise and update the content as necessary and post updates to Intranet.		31 Oct
*(e) Include a brief Strategic Plan progress update and reminders of upcoming due dates as a	*RFEPMs	Monthly
regular agenda item on each Regional Fire Ecologists monthly conference call.	Conference Call	
	Leader	
*Strategy Ic3. Evaluate the Fire Ecology Program structure and position needs.	·	-
*(a) Provide annual fire ecology cluster definition updates (per Business Rules for Fire Ecology	*Benson	Annually by
Program Staffing, section F4) to National Fire Ecology Program Manager (NFEPM) and make	RFEPMs	31 Mar
budgetary recommendations to pass on to FMPC/Fire Management Leadership Board (FMLB).		
*(b) Annually provide details of actual staffing for past fiscal year (per Business Rules for Fire	RFEPMs	Annually by
Ecology Program Staffing, reporting rules section) to NFEPM to pass on to FMPC.		31 Dec
(c) Solicit feedback from Parks/Clusters to determine if their needs are met by current Fire	*Benson	
Ecology Program staffing and provide written recommendations to NFEPM for reporting to the	RFEPMs	
FirePro Steering Committee.		
(d) Based on feedback from above (action item Ia3(a)), evaluate FirePro fire ecology logic	*Benson	
results to determine if Fire Ecology Program needs are met.	RFEPMs	
(e) Prioritize position deficiencies generated by the FirePro logic and identify and prioritize	*Benson	Annually
additional positions not generated by the logic.	RFEPMs	
(f) Develop, distribute, and summarize results of internal survey to determine how supervisory	*Benson	
flow and organizational structure is working and report to FMLB.	RFEPMs	
Objective Id. The NPS Fire Ecology Program Strategic Plan is well-integrated with other strateg	ic planning efforts by	2004.
*Strategy Id1. The Fire Ecology Program Strategic Plan is integrated into the NPS Wildland Fir links to the NPS Strategic Plan.	e Management Strateg	gic Plan and
*(a) Review other strategic plans at all levels and functional areas within the National Park Service to determine relationships with the Fire Ecology Program.	*Keifer	Completed
*(b) Integrate the Fire Ecology Program Strategic Plan into the FMPC Wildland Fire	*Keifer	1 Feb 2004
Management Strategic Plan either as an appendix or other method.	477 10	
*(c) Provide references to the appropriate sections of the NPS Strategic Plan within the Fire Ecology Program Strategic Plan.	*Keifer	Completed
Objective Ie. The role of the Fire Ecology Program in relation to the broader external and interaguell defined and recognized by 2008.	gency fire managemen	at community is
Strategy Ie1. Define external users of fire ecology information.		
Strategy Ie2 Develop new Memorandum of Understandings (MOUs) and/or formalize relations	hine with identified no	rtners that

Strategy Ie2. Develop new Memorandum of Understandings (MOUs) and/or formalize relationships with identified partners that specify roles and responsibilities.

Strategy Ie3. Identify and participate with appropriate interagency task groups as necessary to establish and maintain collaborative relationships with the broader fire management community.

Mission Goal II. Science-based Management – Ensure fire management activities are informed and supported by the best available scientific information.

Action Required	By Whom	By When
Objective IIa. Field-level planning, reporting, and monitoring activities are developed and review	ved to ensure that they	are science
based by 2006.		
*Strategy IIa1. Develop recommended guidelines and procedures for review of policy, Fire Man	agement and Monitori	ng Plans,
research proposals, and reports.	1	
*(a) Define procedures for internal park, regional, and national review processes that utilize the	*DeCoster	defer
adaptive management model concept to evaluate programs, identify needs or issues, and report	(task group)	
results and recommendations [links to Strategy Ic1 and action items Ia4(a), Ib3(a), and IIb2(b)].		
*(b) Work with FMPC, through Regional Fire Management Officers (RFMOs), to ensure Fire	*Benson through	defer
Ecology Program consultation in policy development by identifying and soliciting representation	NFSEPL	
on key national working groups [links to action item Ib1(a)].		
*(c) Develop a list of both agency and academic/scientific community technical reviewers	*Benson with	defer
available to formally review policy, proposals, and reports and post the list to Intranet.	NFSEPL	
*(d) Develop a voluntary internal peer review process for both formal and informal reports.		defer
*(e) Secure source for statistical consultation to assist park staff with scientific analyses.	*Benson	Completed
*Strategy IIa2. Develop, implement and review monitoring methods and protocols that effective	ly measure progress to	wards fire and
resource management goals.		
*(a) Track monitoring plan development and implementation for park fire management	*Allen	Annually by
programs.	RFEPMs	1 Oct
*(b) Define the process for evaluating and reporting the success of monitoring protocols in	*DeCoster	defer
assessing the effectiveness and effects of fuels treatments [links to action item $Ia4(a)$].	(task group)	
*(c) Implement the process defined above to evaluate the adequacy and effectiveness of existing	* DeCoster	Annually by
approved monitoring protocols and report to FESC for recommendation.	RFEPMs	1 Oct
*(d) Identify programmatic areas where protocol inadequacies or weaknesses exist and prioritize	* DeCoster	defer
development needs.	(task group)	
*(e) Host monitoring workshop(s) to facilitate refinement and sharing of existing protocols	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	defer
and/or development of new protocols where appropriate.		
*(f) Revise guidelines on selection and approval of alternative monitoring methods [links to	*Benson	defer
action item Ia4(a)].		
Objective IIb. Knowledge gained through Fire Ecology Program activities is consistently analyze	d, evaluated, and made	e available for
program planning and refinement by 2005.		
*Strategy IIb1. Develop a structured reporting process for monitoring program data analysis and	results that reports acc	omplishments
to Park Superintendents, Regional Fire Management Officers, the Fire Management Leadership Bo	oard, and the public.	_
*(a) Define annual reporting process for national-level monitoring efforts.	*Benson, RFEPMs	1 Oct 2004
*(b) Define annual reporting process for regional-level monitoring efforts.	*Noble, RFEPMs	1 Oct 2004
*(c) Define annual reporting process for park-level monitoring efforts.	*Thorstenson,	1 Oct 2004
	DeCoster	
*(d) Designate and support selected parks for more detailed analysis and interpretation of park	*Benson, RFEPMs	1 Oct 2004
data sets.	,	
*(e) Complete success stories on applications of monitoring program data and post to Intranet.	*Keifer, RFEPMs	1 Oct 2004
*(f) Publish example applications of various analysis techniques and results (e.g. trend analysis,	Various (e.g.	1 Oct 2004
meta-analysis).	Kopper/Peterson)	
Strategy IIb2. Develop a process to incorporate research results into fire management program pl		ation.
(a) Complete an annual publication on NPS Fire Ecology Program current research and research	National Research	Annually
results that will inform the NPS Fire Management Program [links to Strategy IId1].	task group	
(b) Ensure feedback of information from new research is part of the adaptive management	tuon group	
process [links to action item IIa1(a)].		
Objective IIc. Landscape-level planning incorporating ecological modeling, desired future conditions to the following desired for the following de	ions risk assessment	and treatment
priority concepts is implemented by 2006.	, riore above difficility (a di Califfont
*Strategy IIc1. Work with NPS and interagency partners to develop and implement landscape-sca	ale planning efforts in	cluding
LANDFIRE, the Fire Program Analysis (FPA) system, and the Fire Learning Network (FLN) program and the Fire Lea		ordanig .
*(a) Review tools currently available to assist with landscape-scale planning and post to Intranet.	*Wills	1 Sep 2004
(a) 10010 m tools currently available to assist with landscape-scale planning and post to initialict.	(task group)	1 50p 2004
*(b) Compile examples of landscape-scale planning efforts (risk assessments, landscape	*Wills	1 Sep 2004
treatment priority analyses, existing ecological models) and post to Intranet.	** 1113	1 5cp 2004
treatment priority analyses, existing ecological models) and post to mitanet.		

Action Required	By Whom	By When
*(c) Compile a list of technical experts who are willing to provide assistance in landscape-scale	*Wills	1 Sep 2004
planning and post to Intranet.		
*(d) Determine data needs for landscape-scale planning efforts.	*Wills	1 Sep 2004
	(task group)	
*(e) Provide NPS representation to coordinate with The Nature Conservancy's (TNC) Fire	*DeCoster, Wills	1 Oct 2004
Learning Network (FLN) Program to explore possibilities for collaboration at national, regional,		
and local levels.		
*(f) Develop and implement landscape-scale planning workshops to include ecological modeling		defer
and development of desired future conditions [links to Strategy IVa3].		
*(g) Work with Fire Program Analysis (FPA) system NPS representative to coordinate	*Benson	1 Sep 2004
landscape-level planning efforts on an interagency basis [links to action item IVa2(j)].	43 T 1 1	1 5 1 2004
*(h) Encourage integration of ecological modeling concepts, desired future condition	*Noble	1 Feb 2004
development, and adaptive management in existing National Wildfire Coordinating Group		
(NWCG) fire ecology training curriculum (e.g. RX-310, RX-510, M-580).	*D	1.0 2004
*(i) Continue to support field validation of burn severity assessment data.	*Benson	1 Sep 2004
*(j) Initiate development of burn severity applications workshop and conduct trial workshop.	*Benson, Burn	1 Sep 2004
	Severity Mapping	
*(It) Coordinate with I ANDEDE afforts to ansure that NDC mode are represented and NDC date	working group	1 Oct 2004
*(k) Coordinate with LANDFIRE efforts to ensure that NPS needs are represented and NPS data and information is made available where possible.	*Benson	1 Oct 2004
*Strategy IIc2. Utilize a consistent/relevant process to document Fire Regime Condition Class (F	(PCC) and integrate Fi	PCC
assessments into ecological models and other planning efforts.	RCC) and integrate r	KCC
*(a) Work with Fuels/Fire-GIS personnel to define NPS Fire management program roles,	*Benson, Bahr,	1 Oct 2004
responsibilities, and procedures with regard to FRCC classification and documentation.	Wallace	1 001 2004
*(b) Ensure Regional & Park fire ecology staff are informed of FRCC procedure information and	*NPS FRCC rep	1 Sep 2004
attend FRCC training.	TNI S I'RCC IEp	1 Sep 2004
*(c) Evaluate existing standard FRCC methods and alternative protocols as they develop.	*Allen, Reeberg	1 Oct 2004
*(d) Post to Intranet examples of existing FRCC development processes utilized in various parks	*Schon	1 May 2004
and regions.	Schon	1 Way 2004
*(e) Ensure that FRCC assessments are incorporated into the Natural Resource Program Center	*Eckert, Benson	1 Oct 2004
(NRPC) Watershed Assessment Program [links to Strategy IVa3].	Echert, Benson	1 001 200 1
Objective IId. A process for identifying, prioritizing, and pursuing Fire Ecology Program research	h needs is implemente	d by 2006.
Strategy IId1. Identify National Fire Ecology Program roles, mechanisms, and schedules for iden		
programmatic research needs.	<i>J G</i> , r · · · <i>G</i> , ··	
(a) Review RM-18 Chapter 15, Research, and submit recommended edits for approval.		
(b) Establish a National Fire Ecology Program research task group whose membership is	FESC	
responsible for providing research program oversight.		
(c) Compile and maintain a list of fire ecology research needs and post to Intra and Internet.	Research task	
	group	
(d) Clarify annual FirePro research request process including development /communication of	Research task	
submittal, review and approval processes.	group	
(e) Compile a list of appropriate available fire research funding sources (such as Joint Fire	Research task	
Science Program (JFSP)) and associated timeframes. Communicate list through e-mail and	group	
development and maintenance of an Intranet website.		
(f) Conduct annual meeting/conference call of research task group to complete a review of		
regional and national priorities for research and to develop recommendations for prioritization		
and forwarding of proposals.		
Strategy IId2. Identify regional and Park level Fire Ecology Program roles, mechanisms, and sch	edules for identifying,	prioritizing,
and pursuing programmatic research needs.	T = ===	T
(a) Establish regional multi-disciplinary research committees structured according to local need	RFEPMs	
(may be multi-agency). Solicit regional committee membership, Select committee chairs,		
develop committee charter, and schedule regional review process.	D	
(b) Develop unified call within each landscape/ecosystem for formalized questions/statements	Regional Research	
identifying functional areas of research need.	Committee	-
(c) Coordinate with National Research Task Group to establish procedures and timelines for		
prioritization of research needs among all regions.	27.11.1	
(d) Host proposal writing workshop (coordinate with Natural Resource Program workshop).	Nat'l task group	

Mission Goal III. Information Management – Provide fire ecology-related data and information that is easily accessible and valuable to all user groups.

Action Required	By Whom	By When
Objective IIIa. Data needs for the Fire Ecology Program are identified, prioritized, and pursued		
Strategy IIIa1. Identify, prioritize, and acquire data required to support the Fire Ecology Progra	m.	
(a) Inventory currently available data sets that are part of the Fire Ecology Program.		
(b) Conduct a survey of fire ecology and fire management staff to determine relevant data sets		
needed for Fire Ecology Program inventory, monitoring, modeling, and planning efforts and		
create a prioritized list of programmatic data needs.		
(c) Develop a process and secure funding to support collection of identified high priority		
inventory data not currently available.		
(d) Develop process/training to assist parks with data mining and data layer development.		
Strategy IIIa2. Establish the relationship between the Fire Ecology Program and the NPS fire in	formation management	program.
(a) Review RM-18 Chapter 16, Information Management, and submit recommended edits for		
approval.		
(b) Write data management plan for fire ecology data to include identifying data management		
responsibilities using NPS Inventory and Monitoring (I&M) Program data management plan as		
starting point [links to action item IVb2(d)].		
Objective IIIb. Fire ecology data and information are collected, stored, and accessed using the l	atest technologies for us	se by the Fire
Ecology and other related programs and projects by 2005.		
*Strategy IIIb1. Design and build an application to collect, store, index, and analyze fire ecolog		
*(a) Develop the Fire Ecology Assessment Tool (FEAT) to meet the data and information needs	*Benson	1 Sep 2004
of the Fire Ecology Program.	427.11	
*(b) Develop an overall FEAT Management Plan identifying working groups, roles and	*Noble	Completed
responsibilities, communication methods, and timelines for FEAT.	diD D 1	1.02004
*(c) Provide strategic guidance for the ongoing development, implementation, and maintenance	*Benson, Delaney,	1 Oct 2004
of FEAT.	RFEPMs	1.0. 2004
*(d) Test the FEAT application and provide timely feedback to the developer to improve the	*Benson	1 Sep 2004
functionality and ensure the usefulness of the application.	(task group)	1.12004
*(e) Conduct a field assessment of current data conditions to determine the workload for the	*Benson	1 Jan 2004
migration of legacy data. *(f) Develop and implement a plan for the migration of legacy data (Fire Monitoring Handbook	*Keifer, Benson,	1 Apr 2004
(FMH)) to FEAT so that these data can be easily accessed and analyzed.	Reeberg, Kopper,	1 Apr 2004
(FMIT)) to FEAT so that these data can be easily accessed and analyzed.	Kerr, DeCoster,	
	McInness, Gorman	
*(g) Develop and maintain a protocols catalog for FEAT to encourage sharing protocols where	*Benson, RFEPMs	1 Oct 2004
possible to minimize duplication of effort in protocol development.	Bonson, ra Er mis	1 301 200 1
*(h) Develop recommended standards for collecting fire weather, fire behavior, and smoke data	*Burgard	1 Oct 2004
and incorporate this data into FEAT.	(task group)	
*(i) Manage the FEAT contracts to ensure that project timelines and specifications are met.	*Delaney, Benson	Ongoing
*(j) Provide oversight and maintenance of the FEAT implementation process (<i>Note: This</i>	See strategy IIIb1c	1 Oct 2004
strategy was merged with strategy IIIb1c).		
*(k) Develop an ecological 'disturbance' database in FEAT.	*Reeberg, Mike	defer
	Story	
*(I) Continue to archive burn severity spatial data on Earth Resources Observation Systems	*Benson	1 Sep 2004
(EROS) data center server and maintain access to data through National Burn Severity Mapping		
Project website.		
*(m) Migrate Composite Burn Index (CBI) data to standard format and determine location to	*Benson, Burn	1 Sep 2004
store data and make accessible through the Internet.	Severity Mapping	
	working group	
Strategy IIIb2. Centralize data and information as appropriate to provide secure access.		
(a) Develop a website or Fire Transfer Protocol (FTP) site with searchable database to catalogue		
fire ecology related tools, information, and resources (e.g. bibliographies, databases, models)		
using existing processes where available.		
(b) Identify appropriate hosting organizations for data repositories. (e.g., USGS-GeoMac for fire		
history, I&M for monitoring data) and contact them to explore possibilities for hosting data.		
(c) Develop mechanism for contract data management support; develop program to use		
Cooperative Ecosystem Studies Units (CESUs).		

NPS Fire Ecology Program Strategic Plan

Action Required	By Whom	By When
(d) Determine location and process for populating a digital library of existing fire management		
and fire monitoring plans for each park unit or cluster.		
(e) Develop links to the digital library from the Fire Ecology Intranet and Internet sites, working	Benson, Web	
with the NPS Fire Management Program.	master	
(f) Create an internal database of fire ecology program employees and their specific areas of	RFEPMs and Field	
expertise and post to Intranet.	Fire Ecologists	
Strategy IIIb3. Develop and implement standards and quality assurance/quality control (QA/QC)	measures to ensure co	nsistent, high
quality data and information.		
(a) Work with NPS fire information management staff to develop data standards for fire ecology-	data standards task	
related data.	group	
(b) Develop QA/QC procedures for fire ecology data, in coordination with the I&M program and	data standards task	
other collaborators, following guidelines being developed in the Director's Order on Data	group	
Quality (DO-11B).		

Mission Goal IV. Integrate Fire and Resource Management – Facilitate coordination between the fire and resource management programs to ensure that the fire program meets resource management goals.

Action Required	By Whom	By When
Objective IVa . Fire and resource management staff will work together to ensure that fire-related integrated in all levels of park planning by 2007 (General Management Plan (GMP), Resource	nagement Plan (RMP),	objectives are Fire
Management Plan (FMP), project-level plan); develop policy, guidance and new initiatives for fire and related issues.	-related land managem	ent planning
Strategy IVa1. Establish the role of the Fire Ecology Program in the fire and resource manageme	nt planning process.	
(a) Review RM-18 Chapter 4, Fire Management Plans, and edit as necessary to establish fire		
ecologists as leaders on specific portions of the Fire Management Plan, including recommending		
that collaboration should occur with resources management on FMP compliance [links to action		
item $Ia4(b)$].		
(b) Involve fire ecologists directly in natural/cultural resource issues relating to fire for RMPs,		
GMPs, ensuring that critical resource management issues relating to fire are addressed in the		
plans; establish contacts between fire ecologists and natural/cultural resource managers.		
Strategy IVa2. Establish NPS administrative processes that encourage collaboration between the and cultural resource planning efforts.	Fire Ecology Program	and natural
(a) Position fire ecologist at NRPC.	*Sexton	Completed
	*Benson	•
(b) Identify partnership goals between FMPC and NRPC.(c) Identify key positions at all levels (unit, region, national) linking fire & resource management	Bellson	Ongoing
programs and define their roles and responsibilities [links to Strategies Ia2 and Ia3].	*D	
(d) Define positions and recommended shared duties and relationships between fire ecology	*Benson	
program and NRPC related positions (e.g. I&M, Biological Resource Management Division		
(BRMD), Natural Resource Stewardship and Science (NRSS), etc.) and post to Intranet [links to		
Strategy Ia2]. (e) Conduct field assessments at parks jointly with fire and natural resource (including NRPC)		
staff.		
(f) Develop position paper assessing the benefits of synchronizing FirePro and resource	(NRSS)	
management budget/funding calls.	(INKSS)	
(g) Post schedule of budget/funding calls on fire and resources Intranet sites.	Benson	
(g) Fost schedule of budget/funding cans on the and resources intranet sites.	(BRMD)	
(h) Write position paper assessing the effectiveness of fire management as a part of the NRSS	(DKWD)	
Directorate versus the current structure.		
(i) Ensure that FMPC is represented on NRPC Fire Technical Advisory Group (FTAG).		Completed
(i) Elistic that I wil C is represented on Two C I he Technical Advisory Group (I 1740).		Completed
*(j) Work with Fire Program Analysis (FPA) system staff to ensure FPA incorporates natural and	*Allen	1 Sep 2004
cultural resource management information and ecological concepts [links to action item IIc1(g)].	(task group)	1 Sep 2001
cultural resource management information and ecological concepts [www to action went fier (8/)].	Manley	
*(k) Designate a fire ecologist to serve on each of the 16 NPS Exotic Plant Management Team	*Eckert	1 Feb 2004
(EPMT) steering committees.	RFEPMs	11002001
Strategy IVa3. Educate and train fire and resource staff on appropriate collaborative issues include	ļ	nd ecological
modeling, working with other fire management program staff.	,g p.w	
(a) Develop "Integrated Fire and Resource Management Planning" workshops for	Resource	
regions/ecoregions [links to action item IIc1(f)].	Specialists,	
0//	RFEPMs, Field	
	Fire Ecologists	
(b) Conduct "Integrated Fire and Resource Management Planning" workshops for		
regions/ecoregions [links to action item IIc1(f)].		
(c) Refine "Integrated Fire and Resource Management Planning" workshops for		
regions/ecoregions [links to action item IIc1(f)].		
Objective IVb. The Fire Ecology Program will collaborate with the Inventory and Monitoring (I& Natural Resource Program Center) by 2006 to efficiently meet resource-monitoring goals.	kM) program (branch o	of the NPS
Strategy IVb1. Continue to implement collaborative vegetation/fuels mapping program with the l	VPS I&M program	
*(a) Develop vegetation and fuels mapping priorities at both regional and national levels,	*Benson, RFEPMs	defer until
working with other fire and resource management staff.	Denson, Keefivis	Ft. Collins
working with other the and resource management start.		position is
		filled
	<u> </u>	micu

NPS Fire Ecology Program Strategic Plan

Action Required	By Whom	By When
*(b) Formalize vegetation and fuels mapping development needs assessment process.	*Benson, RFEPMs	defer
*(c) Establish fire ecologists as one of the fire program contacts for vegetation and fuels mapping	*Benson	defer
to ensure vegetation maps are meeting fire management needs.		
*(d) Develop guidelines and tools for updating vegetation and fuels data layers.	*Benson, RFEPMs	defer
*Strategy IVb2. Integrate the Fire Ecology Program and I&M network inventory and monitoring	efforts.	
*(a) Establish fire ecologists as the primary contact for collaboration with I&M networks by	*Keifer, RFEPMs	defer
providing contact information to fire program and I&M network staff and posting to Intranet.		
*(b) Encourage fire ecologist participation in I&M workshops to ensure that fire ecosystem	*Fancy, RFEPMs	defer
models are incorporated in I&M conceptual ecosystem models [links to action item IIc1(f)].		Ongoing
*(c) Explore the potential to pool resources with the I&M program in collaborative monitoring	*Fancy, *Benson,	Ongoing
efforts (e.g. invasive species monitoring work group, combining field crews, etc.).	RFEPMs	
*(d) Develop a work plan to integrate fire effects data with I&M program databases [links to	*Benson, Fancy	defer
action item IIIa2(b)].		
*(e) Facilitate sharing monitoring protocols by consulting and populating the I&M protocol	*DeCoster (task	defer
database.	group)	
*(f) Host regional workshops to facilitate integrated analysis of fire monitoring and I&M data	?	defer
sets.		
*(g) Integrate the burn severity mapping program with the I&M program.	*Benson	defer
		Ongoing
Strategy IVb3. Participate with appropriate task groups to ensure collaboration occurs between fi	re ecology and I&M p	rograms and
staff.		
(a) Ensure that NRPC is represented on Fire Ecology Steering Committee.	Benson	Completed
(b) Coordinate with I&M and identify and pursue potential partners outside the agency.		
(c) NRPC and FMPC will notify each other of task groups or initiatives as established to ensure	Benson	
coordination and to identify opportunities for collaboration.		

Mission Goal V. Employee Development and Retention – Promote a work environment where employees are highly skilled and valued.

Action Required	By Whom	By When
Objective Va. The Fire Ecology Program recruits and maintains a professional and highly compet	· ·	<u> </u>
Strategy Va1. Institute recruitment plan for filling vacant fire ecologist and fire effects monitor po		
high potential.		
(a) Develop example template for recruitment plan for fire ecology program positions and post to	Personnelist	
Intranet.	Field Ecologist	
(d) Post example recruitment plans to NPS Fire Ecology website.	Benson	
(c) In recruitment plans, encourage parks to advertise fire ecologist positions as upward mobility		
GS 9/11 (entry level position could be 401 and full performance would be 408 series) where		
appropriate.	DEEDM	A 11
(d) Assess success of recruitment plan efforts through annual reviews and report results in annual	RFEPMs	Annually
regional reports.		
(e) Encourage use of technical experts on selection panels for fire ecology program position		
hiring. Strategy Va2. Develop standard position descriptions (PDs) for all levels of the Fire Ecology Pro	aram Ingluda addition	al antional
PDs that incorporate 6c coverage (secondary firefighter retirement) for Fire Ecology Program position		
(a) Collaborate with human resource staff and RFMOs to assess the potential to revise the	PacWest FE	j.
current Lead Monitor benchmark PD to include supervisory responsibility and to create an	Regional staff	
additional Lead Monitor benchmark PD that includes secondary 6c coverage for optional use.	Regional start	
(b) Collaborate with human resource staff and RFMOs to assess the potential to create an	Midwest FE	
additional fire ecologist benchmark PD that includes secondary 6c coverage for optional use.	Regional staff	
(c) Collaborate with human resource staff and RFMOs to assess the potential to create additional	IMRO Regional FE	
Assistant Lead Monitor and Fire Effects Crew benchmark PDs that include secondary 6c	staff	
coverage for optional use.	2.00-2	
(d) Encourage the use of benchmark PDs for all new Fire Ecology Program hires by posting the	Benson	
benchmark PDs on the Intranet and considering inserting language to encourage their use in RM-		
18 Chapter 11, Wildland and Prescribed Fire Monitoring.		
Strategy Va3. Develop and implement minimum competencies and professional standards for all	permanent Fire Ecolog	gy Program
employees, including scientific and program administration skills.		-
(a) Form Task Group to develop competencies and professional standards (look at recently		
developed Bureau of Land Management (BLM) example).		
(b) Conduct scoping of FESC to determine desired minimum competencies.		
(c) Create minimum competencies for fire ecologists, lead monitors, and fire effects crew		
member positions, including science-based skills as well as skills needed for program		
administration.		
(d) Create professional standards for Fire Ecology Program positions.		
(e) Competencies disseminated to fire ecology community through emails and posted on	Benson	
Intranet.		
(f) Provide necessary training so that all fire ecologists will meet professional ecologist 408	Benson	Recurring
series X-118 standards by September 2004 (or within two years of hire). Training plans will	RFEPMs	
outline needs to achieve 408 series and define methods to achieve this.	First Line	
	Supervisors	
Strategy Va4. Implement a process for tracking retention of employees.	<u> </u>	I
(a) Create exit interview questionnaire and template for reporting regional staffing statistics in annual staffing report.		
(b) Analyze exit interview questionnaires to determine number of employees who have left the	RFEPMs	Recurring
program and identify potential emerging trends or issues needing to be addressed.	ICI LI IVIS	Recuiring
(c) Results of exit interview form analysis will be made available to NFEPM during regular	RFEPMs	Recurring
staffing reporting process.	141 1419	Annually
(d) Exit interview and regional staffing and retention rates summary statistic information will be	Benson	
compiled and included as part of regional annual staffing report.		
complies and meraded to part of regional annual outring report.	l	l

Action Required	By Whom	By When
Objective Vb. The Fire Ecology Program develops highly skilled, dedicated, and motivated employ 2006.		
Strategy Vb1. Provide employee training and development opportunities (detail assignments, trai and communicate via website/Intranet.	ning and education opp	portunities)
(a) Recommend RM-18 Chapter 6, Training, Qualifications, and Certification, and Chapter 11,		
Wildland and Prescribed Fire Monitoring, edits to explicitly include employee development		
plans.		
(b) Develop website link on fire ecology Intranet to NPS training site and example employee		
development plans.		
(c) Reference internal program structure survey (action item Ic3(f)) to assess program career	Benson	
ladder. Identify any programmatic deficiencies and propose solutions.		
(d) Ensure employees are informed of the mentoring program and support their participation.	National Fire	Recurring
	Mentoring Program	Annually
	manager	(fall)
(e) Provide educational opportunities to enhance skills of ecologists.		
Strategy Vb2. Provide opportunities for staff to maintain scientific currency and expertise.		
(a) Standardize fire ecologist performance plans to include maintaining scientific currency in the		
field of fire ecology.		
(b) Assess Fire Ecology Program staff development needs by completing and implementing		
Employee Development Plans.		
(c) Facilitate funding for access to scientific publication and education and professional society		
membership.		
(d) Facilitate funding for participation in appropriate professional workshops, scientific meetings	Benson	Ongoing
and conferences [links to action item VIa2(c)].	RFEPMs	
Streets with 2 I tractitute a management for any allowed recognition and assured for innovative and called		
Strategy Vb3. Institute a program for employee recognition and rewards for innovative and collaboration (a) Develop criteria for rewards/nomination process and publicize program to Fire Ecology	borative work.	T
Program.		
(b) Publicize awards in Fire Ecology Newsletter, through mailing lists, and on Intranet.		Recurring
Objective Vc. The Fire Ecology Program develops and participates in training to meet programma	atic needs by 2006.	
Strategy Vc1. Develop the Fire Ecology Program training curriculum.		
(a) Identify fire ecology training needs by establishing a Fire Ecology Program training task	Training task group	
group, including a representative from natural resources management.		
(b) Identify needs for existing course revisions and/or new course development.	Training task group	
*(c) Develop and implement statistics refresher, including training for commercially-available	*Kerr, Benson,	1 Jun 2004
statistics software.	Gatewood, Miller	
*(d) Develop and implement FEAT training.	*Benson, FEAT	1 Jul 2004
	Testing working	
() P	group	
(e) Review RX-80 and RX-92 course content to determine needs for these courses.		
(f) Review RM-18 Chapter 6, Training, Qualifications, and Certification, and submit		
recommended edits for approval.		
(g) Develop and implement CBI training.		
(h) Develop and implement NBR data analysis workshop.	. ,	
Strategy Vc2. Ensure that fire ecology is integrated into the interagency fire management training	4	137
*(a) Request Fire Ecology Program membership/representation on National Wildfire	*Noble through	1 Nov 2003
Coordinating Group (NWCG) Fire Use Working Team.	Dick Bahr	
(b) Ensure ecological issues are appropriately addressed in national interagency fire management	NWCG Fire Use	
training curriculum and identify interagency fire ecology training needs.	Working Team rep	
(c) Ensure fire ecology related course offerings are listed on the Intranet.	Training task group	
(d) Fire Ecology Program staff participate as students, faculty, and steering committee members		
for both NPS and interagency courses.		

Mission Goal VI. Communication – Ensure common understanding, acceptance, and support of the Fire Ecology Program.

Action Required	By Whom	By When
Objective VIa. The Fire Ecology Program staff develop and implement a plan to communicate cl	early, consistently,	and effectively
with all internal and external audiences by 2006.		
*Strategy VIa1 Develop a communication strategy for distributing and exchanging information v	vithin the NPS Fire	Ecology Program
staff.		
*(a) Implement monthly conference calls for the Regional Fire Ecology Program Managers	Benson	Monthly
(RFEPM) and quarterly calls for the Fire Ecology Steering Committee.		
*(b) Include discussion board as part of Fire Ecology Program website.	?	defer
*(c) Conduct annual Fire Ecology Steering Committee meetings.	Benson	Annually
*(d) Conduct biennial meetings when possible for all NPS fire ecology staff (held in conjunction	Benson	Biennially
with science/technology updates) and continually evaluate the most efficient meeting timeframe		
and process.		
*(e) Publish and manage a NPS fire ecology newsletter and post to Intranet.	*Eric Miller,	Annually
	RFEPMs	
*(f) Enhance, manage, and update the Fire Ecology Program Intranet and Internet websites	*Keifer	1 Sep 2004
(using I&M site as a model) [links to action item VIa2(a)].		1
*(g) Establish and maintain Lotus Notes mailing groups for FESC, RFEPMs, Field Ecologists,	*DeCoster	Completed
and Lead Monitors.		1
*Strategy VIa2. Develop a communication strategy for exchanging fire ecology information with	nin the National Par	k Service.
*(a) Enhance, manage, and update Fire Ecology Program Internet and Intranet websites by	*Keifer	1 Sep 2004
establishing contacts and a process for maintaining the websites [links to action item VIa1(f)].		1
*(b) Develop an external communications plan for FEAT.	*Benson	defer
*(c) Encourage participation and presentations at scientific meetings and conferences (George	*Keifer	1 Sep 2004
Wright Society, regional Resource Management meetings) by sending out e-mail notification		
detailing meeting locations and dates and maintaining an updated list on the Intranet [links to		
action item $Vb2(d)$].		
*(d) Communicate the Fire Ecology Strategic Plan to the National Park Service by posting the	*Keifer	1 Sep 2004
plan on the NPS Intranet site.		
Strategy VIa3. Develop an external fire ecology program education and communication plan that	t focuses on other fo	ederal, state, and
local agencies and cooperators (Non-Governmental Organizations (NGOs)), in conjunction with ex-		
(a) Enhance, manage, update fire ecology Internet website (establishment of flow process,	*Benson	Ongoing
contacts).	RFEPMs	
(b) Develop a comprehensive listing of fire ecologists in federal, state and local agencies, NGOs,	FESC	
universities and private consultants, and formalize a method of communicating fire ecology		
program information.		
(c) Designate an NPS liaison for the Fire Effects Monitoring and Inventory Protocol	FESC	
(FIREMON).		
(d) Write a communication plan to outline effective strategies to communicate fire ecology		
information to external audiences.		
Strategy VIa4. Work with existing communications programs to develop an external fire ecology	education and con	nmunication plan
that focuses on the general public.		
(a) Partner with Fire Information personnel to provide fire ecology information and review of		
existing ecology content in public fire education materials and presentations.		
(b) Establish a communication flow/process (for national, regional, local outreach to the public.		
but the public.	1	

Appendix A - Program Background

Historically, a significant portion of the Fire Ecology Program has involved fire effects monitoring data collection, storage and analysis. The Fire Monitoring Handbook (FMH) was largely a field-level effort to provide consistent guidance to the staff responsible for monitoring the effects of prescribed fire in National Parks. The FMH-associated database and analysis software served the needs of the program for over ten years, however, the DOS-based software does not serve all of the current and future information management needs of the expanding Fire Ecology and Fire Management Programs. The Fire Monitoring (now "Ecology") Steering Committee recommended that the software be completely revised to meet the changing program needs. The NPS Fire Management Leadership Board (FMLB) approved and funded efforts to implement the recommendations of the Steering Committee in 2001.

The first step was to complete a Business Needs Analysis (BNA) to comprehensively identify the information management needs of the fire ecology program. This BNA collected fire ecology-related information needs from NPS Fire and Resource managers, cooperating agencies, and interested publics. The BNA identified information pieces and their relationships in a manner that allows software developers to design and construct an application for information management. An application, the Fire Ecology Assessment Tool (FEAT), has been designed, constructed, and the first version is currently being tested. The next phase of implementation of the application, as well as migration of legacy data, is in progress.

Recognizing that information management was only one element of the Fire Ecology Program, the Fire Ecology Strategic Plan (formerly known as the "Program Review") was initiated simultaneously with the BNA and FEAT development to address overall program direction. Many new interagency initiatives have provided new guidance to fire management programs that require cooperation and collaboration at all levels. For example, the Fire Program Analysis (FPA) System, in the initial development stage, makes it clear that large-scale, geospatial fire ecology information will be critical input for this new planning and budget allocation system that will be used by all federal fire management agencies. The multi-departmental mandate to use Fire Regime Condition Class (FRCC) as a method for evaluating existing conditions on federal lands and tracking changes in these conditions (program accomplishments) is another such interagency initiative that requires involvement from the fire ecology community.

With a staff distributed across the entire country, the Fire Ecology Program was in need of a more organized effort to provide consistency in meeting the demands of the new initiatives as well as to combine efforts to increase productivity and exchange ideas. A Strategic Plan was clearly needed as both a communication tool to help articulate program goals and as a method to more efficiently implement the work needed to achieve the goals of NPS Fire Ecology and Fire Management Programs.

Appendix B – Fire Ecology Strategic Plan Workshop Participants

Jennifer Allen Fire Ecologist, Alaska Regional Office

Craig Axtell¹ Director, Biological Resources Division, Natural Resource Program Center Nate Benson¹ Fire Ecologist/Data Manager, Fire Management Program Center/Natural

Resources Program Center

Brad Cella Fire Management Officer, Alaska Regional Office

Dana Cohen Fuels Technician, Great Smoky Mountains National Park

Gladys Crabtree Fire Information Resource Manager, Fire Management Program Center

Jim DeCoster* Fire Ecologist, Midwest Regional Office

Ed Delaney Data Manager, Fire Management Program Center

Greg Eckert Restoration Ecologist, Natural Resource Program Center

MaryBeth Keifer* Fire Ecologist, Pacific West Regional Office Linda Kerr Fire Ecologist, Intermountain Regional Office

Dave Lentz¹ Wildland Fire Management Specialist, Intermountain Regional Office

Caroline Noble* Fire Ecologist, Southeast Regional Office

Noel Poe¹ Superintendent, Theodore Roosevelt National Historic Park

Paul Reeberg Fire Ecologist, Pacific West Regional Office
Tim Sexton Fire Ecologist, Fire Management Program Center
Doug Wallner Prescribed Fire Specialist, Northeast Regional Office

Robin Wills Fire Ecologist, Pacific West Regional Office

¹ Attended one workshop only

^{*} Part of task group that refined the Strategic Plan following the workshops